

## **CLAIMS**

1. A ball and socket swivel connector for connecting a scuba second stage regulator to an air pressure hose; the connector comprising:

a ball and socket, the ball having a hollow stem for connection to the hose, the socket having a threaded connector for attachment to the regulator;

5 a pair of spaced apart bushings surrounding the ball within the socket in sealing engagement and forming an annular gap therebetween; and

an O-ring surrounding the ball within said gap.

2. The connector recited in claim 1 further comprising a lubricant filling said gap adjacent said O-ring.

3. The connector recited in claim 1 wherein each of said bushings has a curved surface contacting said ball, the radius of said curved surface being substantially equal to the radius of said ball.

4. The connector recited in claim 1 wherein each of said bushings is made of a low friction material.

5. The connector recited in claim 4 wherein said low friction material comprises Teflon.

6. The connector recited in claim 1 further comprising a boot for extending over said hose adjacent said ball and socket, said boot having a wiper portion extending over said socket for wiping sand from said socket upon rotation of said ball.

7. A ball and socket swivel connector for connecting a scuba second stage regulator to an air pressure hose; the connector comprising:

a hollow stem for connection to the hose, the socket having a threaded connection for attachment to the regulator; and

5 a boot for extending over said hose adjacent said ball and socket, said boot having a wiper portion extending over said socket for wiping sand from said socket upon rotation of said ball.

8. The connector recited in claim 7 further comprising:
  - a pair of spaced apart bushings surrounding the ball within the socket in sealing engagement and forming an annular gap therebetween; and
  - an O-ring surrounding the ball within said gap.
9. The connector recited in claim 8 further comprising a lubricant filling said gap adjacent said O-ring.
10. The connector recited in claim 8 wherein each of said bushings has a curved surface contacting said ball, the radius of said curved surface being substantially equal to the radius of said ball.
11. The connector recited in claim 8 wherein each of said bushings is made of a low friction material.
12. The connector recited in claim 8 wherein said low friction material comprises Teflon.